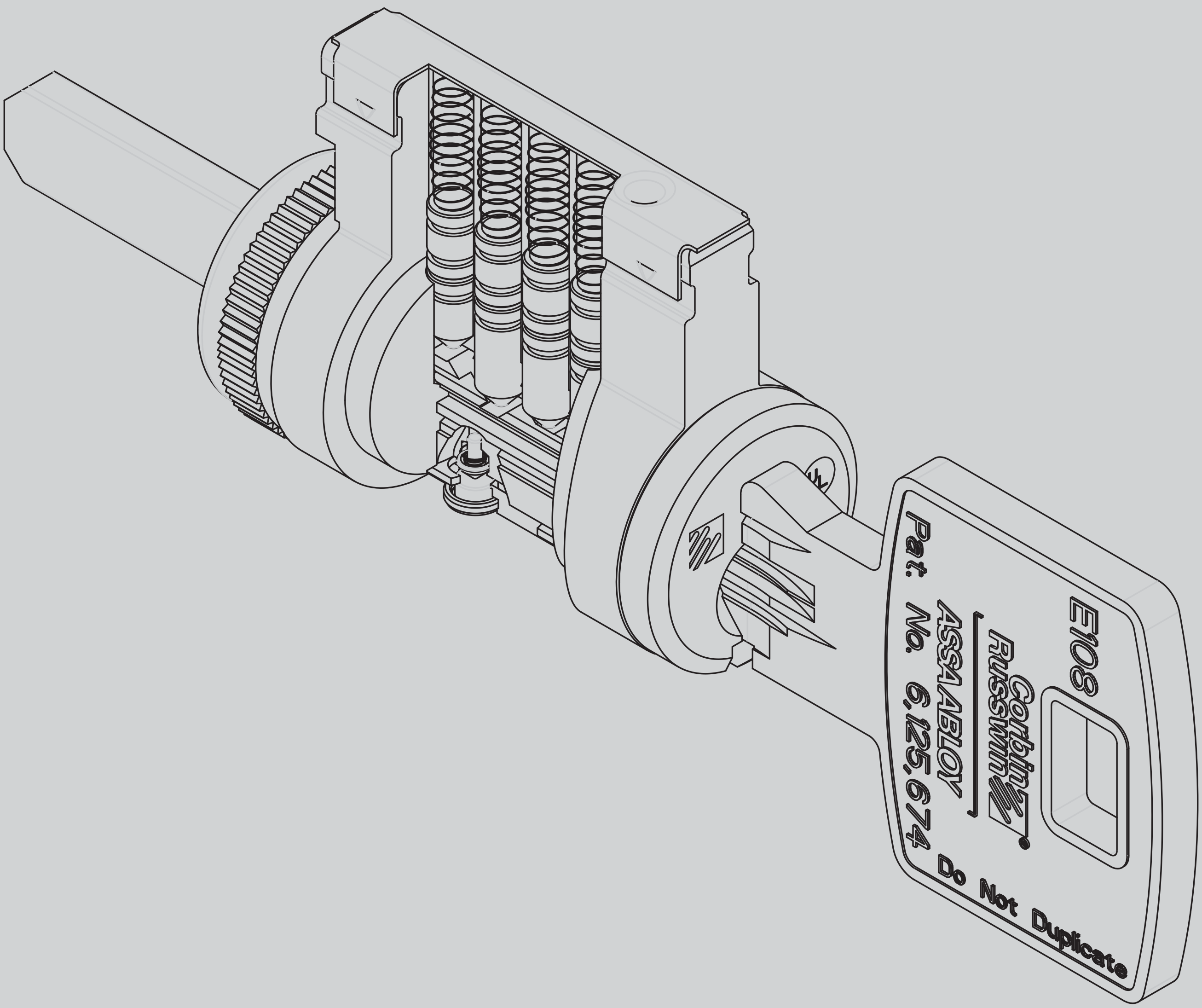
Corbin Russwin
ASSA ABLOY

Pyramid®

Owner's Manual



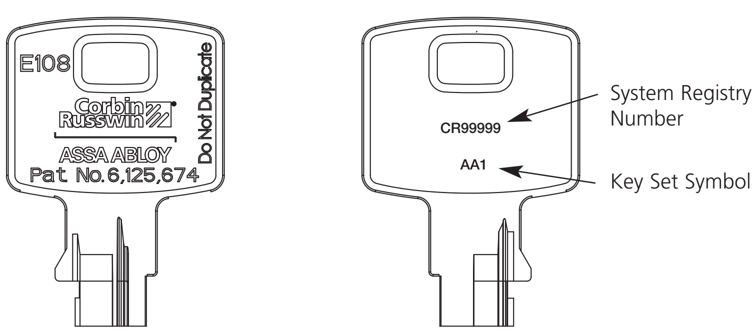
ASSA ABLOY, the global leader
in door opening solutions

Contents

Keys

- Nickel Silver
- Key Bow Type 28
  - Ordering example: 7PIN-28-XXXX (XXXX = Keyway)
  - Ordering example P6 Keyway: 7PIN-28-XXXX-SPCXX (XXXX = Keyway; SPCXX = Side Pin Code)

Front Side **Back Side**



Back Side Stamping & Options

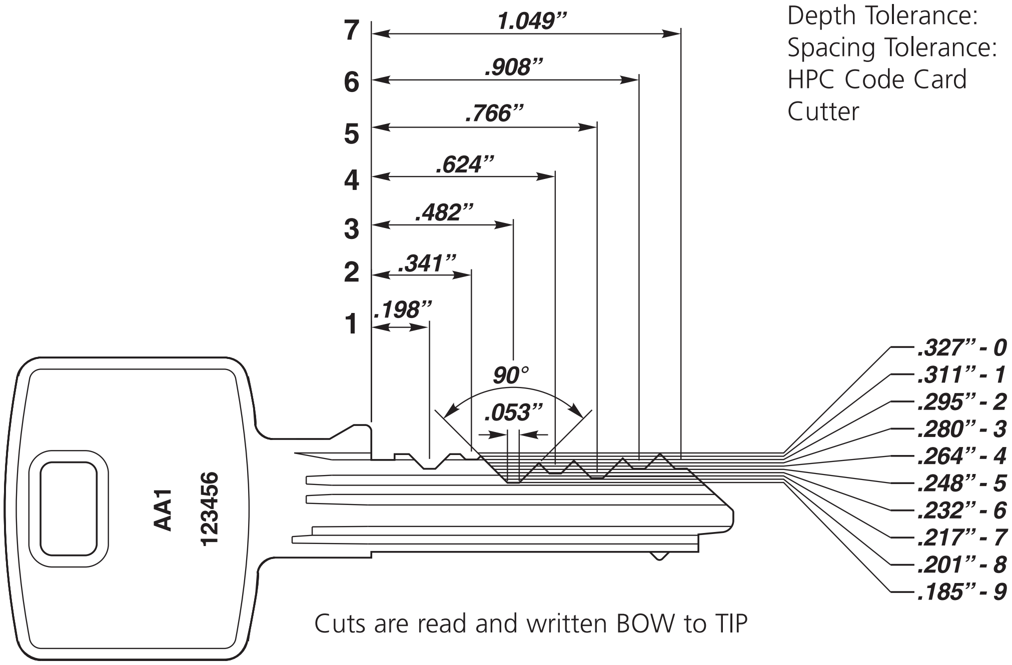
- Key set (VKC1), standard - unless otherwise indicated.
- System registry number (top master and control keys only).
- Concealed key control (CKC2 and CKC3) available on cylinders.

Note: Refer to Corbin Russwin's general catalog and price book for complete detailed information.

Applies to all Pyramid Keyways

PRE-SYSTEM 70

MACS: 7	
Increment:	0.016"
Progression:	Two step
Blade width:	0.334"
Depth Tolerance:	± 0.0015"
Spacing Tolerance:	± 0.0015"
HPC Code Card	CHSI
Cutter	CW-90MC



Cuts are read and written BOW to TIP

Plug Diameter: 0.496"   Pin Diameter: 0.112"

PIN LENGTHS

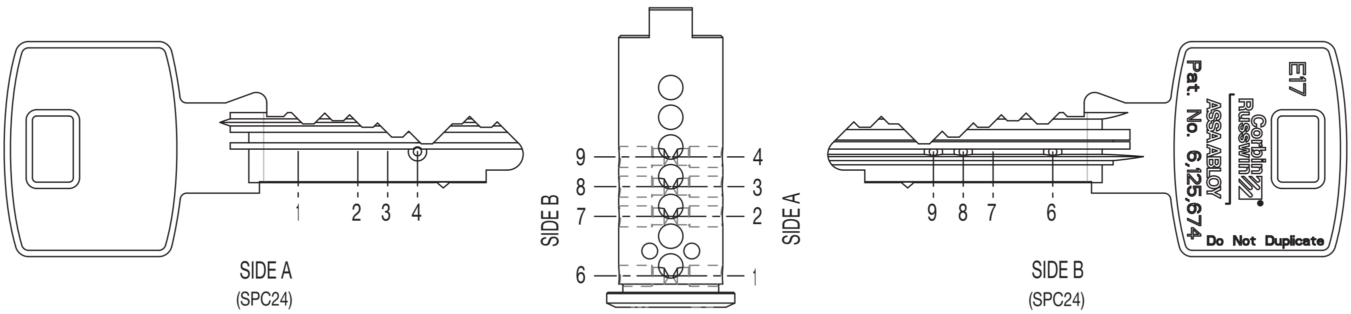
BOTTOM	BUILD-UP	IC TOP	MASTER
0 .139"	-9 NA	0 .189"	2 .031"
1 .155"	-8 .031"	1 .173"	3 .047"
2 .171"	-7 .047"	2 .157"	4 .063"
3 .187"	-6 .063"	3 .141"	5 .078"
4 .202"	-5 .078"	4 .126"	6 .094"
5 .218"	-4 .094"	5 .110"	7 .110"
6 .234"	-3 .110"	6 .094"	8 .126"
7 .250"	-2 .126"	7 .078"	9 .141"
8 .265"	-1 .141"	8 .063"	
9 .281"	0 .157"	9 .047"	
	+1 .173"		
	+2 .189"		
	+3 .204"		
	+4 .220"		
	+5 .236"		
	+6 .252"		
	+7 .267"		
	+8 .283"		
	+9 .299"		

TOP PINS

CONVENTIONAL (FIXED CORE)	LENGTH	IC-NON CONTROL CHAMBERS
Use with Plug Totals		Use with Plug Totals
5-6-7-8-9	← A .141"	
	B .204" →	5-6-7-8-9
0-1-2-3-4	← C .236" →	0-1-2-3-4

Applies to Pyramid P6 Keyway Only

Side Pinning Example



PYRAMID CYLINDER - SIDE PIN COMBINATIONS

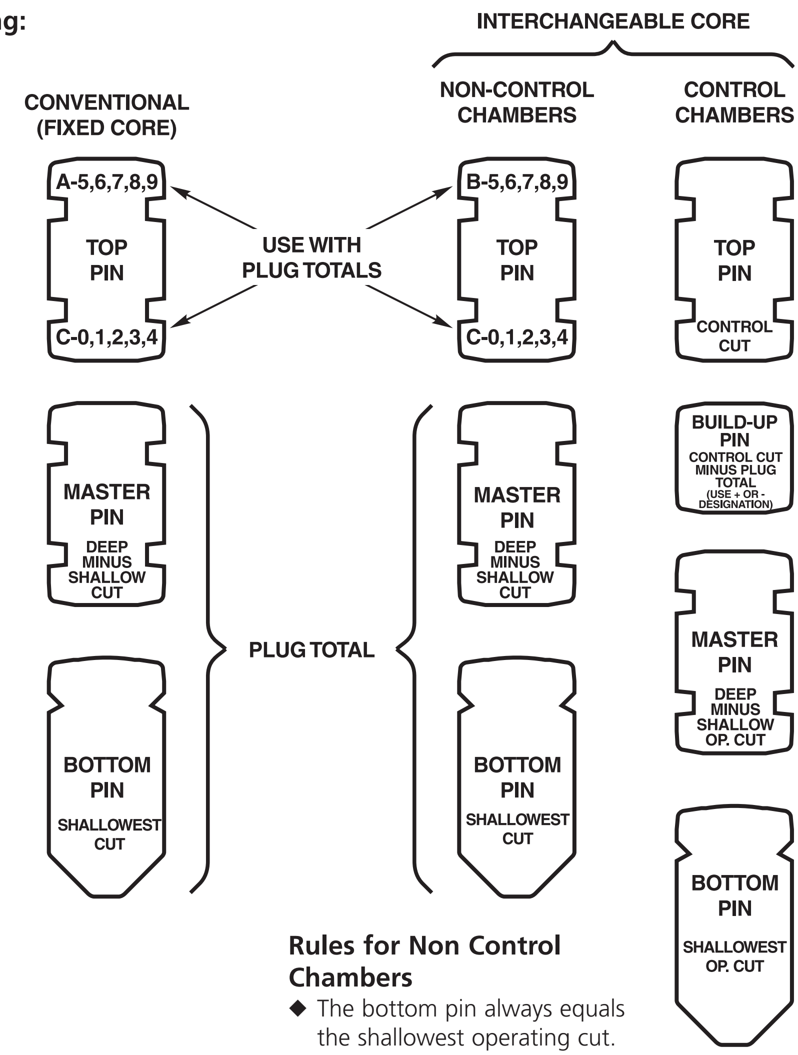
Side Pin Code Number	Pin Numbers
24	4 6 8 9

Note: Only side pin code 24 is listed to illustrate side pinning. Other side pin codes will be assigned for side pins placed in other locations.

Refer to Corbin Russwin's Cylinder Manual (Cyl. Man 9506) for complete step-by-step instructions to service and combinate Mortise, Rim, KIK/KIL and IC type cylinders.

Pyramid has seven pin chambers, each of which must be combinated as per the cylinder type and bitting specification.

Rules for Combinating:



Rules for Conventional (Fixed Core) Chambers

- The bottom pin always equals the shallowest operating cut.
- The master pin equals the difference between the deep and shallow operating cuts.
- The top pin is determined by the plug total.

Rules for Control Chambers

- The bottom pin always equals the shallowest operating cut.
- The master pin equals the difference between the deep and shallow operating cuts.
- The build-up pin is determined by subtracting the plug total from the control cut.
- The top pin equals the control cut.

Rules for Non Control Chambers

- The bottom pin always equals the shallowest operating cut.
- The master pin equals the difference between the deep and shallow operating cuts.
- The top pin is determined by the plug total.

Example for a Conventional (Fixed Core) Cylinder

CHAMBER # ➡		1	2	3	4	5	6	7
CONTROL	N/A							
GGM	N/A							
GM	A	3	6	1	5	4	2	3
MK	AC	5	0	1	5	4	2	3
CK	AC1	5	0	1	3	0	0	3
TOP PIN		A	A	C	A	C	C	C
MASTER PIN		2	6	X	2	4	2	X
BOTTOM PIN		3	0	1	3	0	0	3

Example for an Interchangeable Core Cylinder

CHAMBER # ➡		1	2	3	4	5	6	7
CONTROL		3	1	6	5	4	2	3
GGM	N/A							
GM	A	3	6	1	5	4	2	3
MK	AA	5	2	1	5	4	2	3
CK	AA1	5	2	1	1	0	0	3
TOP PIN		B	1	6	5	C	C	C
BUILDUP PIN		X	-5	+5	0	X	X	X
MASTER PIN		2	4	X	4	4	2	X
BOTTOM PIN		3	2	1	1	0	0	3

CONVENTIONAL (FIXED CORE) CYLINDER

CHAMBER # ➡		1	2	3	4	5	6	7
CONTROL								
GGM								
GM								
MK								
CK								

	1	2	3	4	5	6	7
TOP PIN							
MASTER PIN							
BOTTOM PIN							

INTERCHANGEABLE CORE CYLINDER

CHAMBER # ➡		1	2	3	4	5	6	7
CONTROL								
GGM								
GM								
MK								
CK								

	1	2	3	4	5	6	7
TOP PIN							
BUILDUP PIN							
MASTER PIN							
BOTTOM PIN							

Servicing Cylinders

No special key cutting equipment or service tools are required for cutting Pyramid keys or assembling Pyramid cylinders.

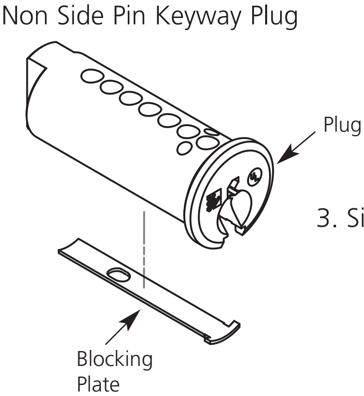
Note the following when servicing:

1. Before the plug is inserted into the shell, the blocking plate must be in position on the under side of the plug.
2. When reinserting the plug into the shell, care must be taken to depress the locking pin mechanism in the shell before the follower is used.
3. Side Pin Keyway Plug Only - If the side pins fall out, they must be inserted back into the side pin holes (in the plug) that correspond with the side pin dimples (on the key). Be sure to check both side of the key for dimple locations; most keys will have dimples on both sides of the key.

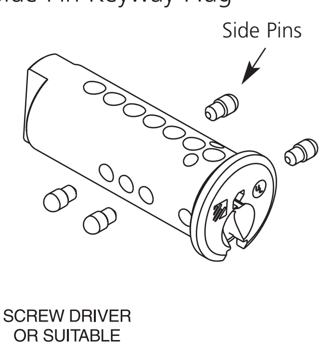
Pyramid cylinders are lubricated from the factory. Cylinders should be lubricated periodically depending upon environmental conditions. Petroleum based lubricant is recommended.

Recommended Lubricants:
- Medeco KeyLube
- Super Lube®

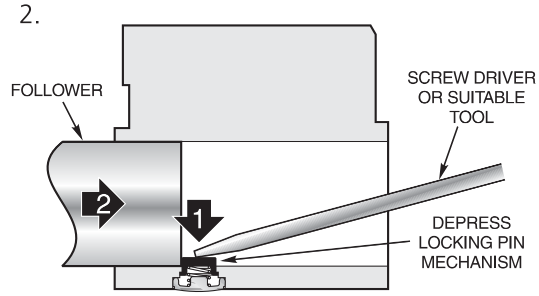
1. Non Side Pin Keyway Plug

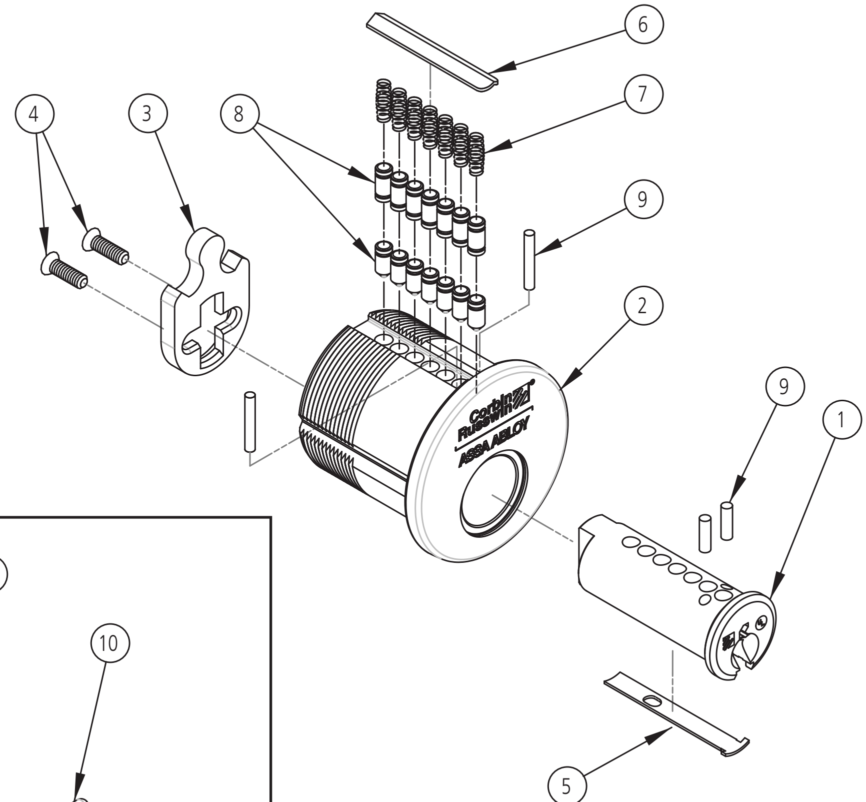


3. Side Pin Keyway Plug

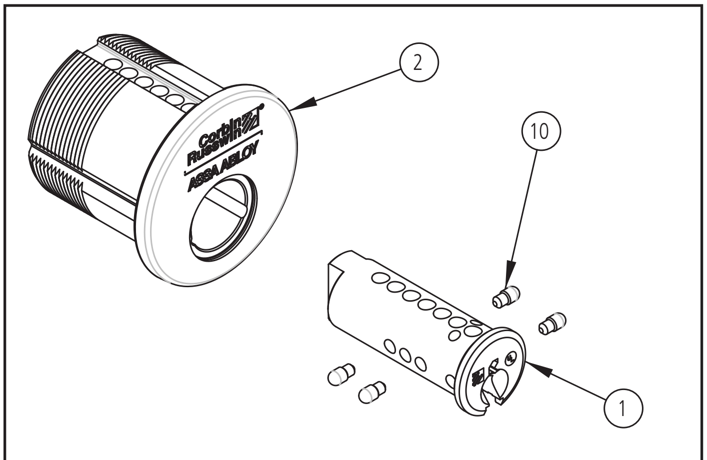


2.





Cylinder with Side Pins

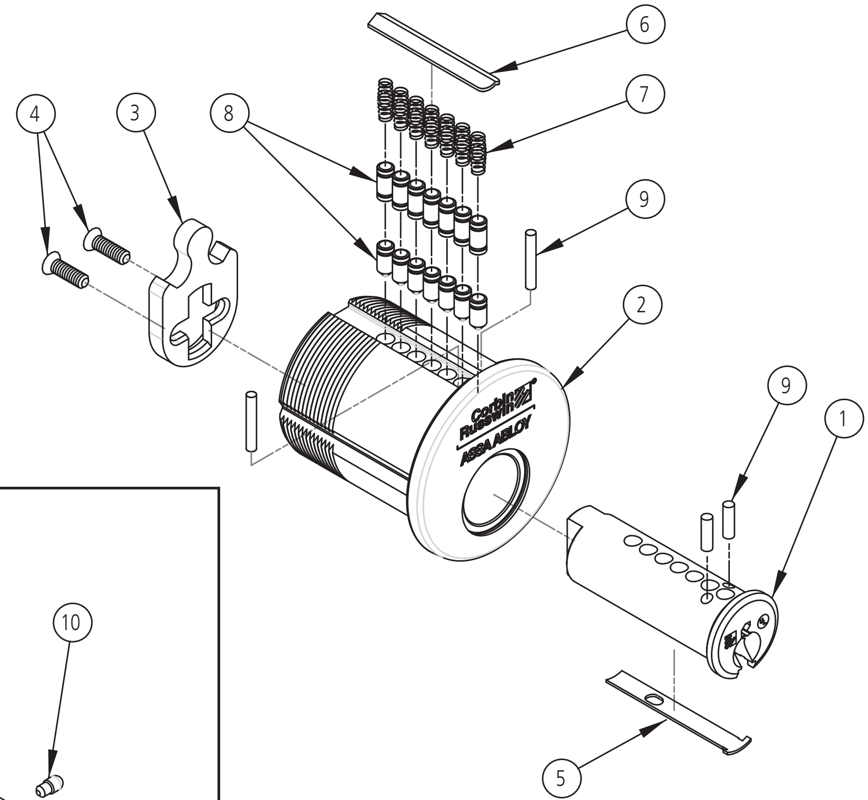


STANDARD CYLINDER

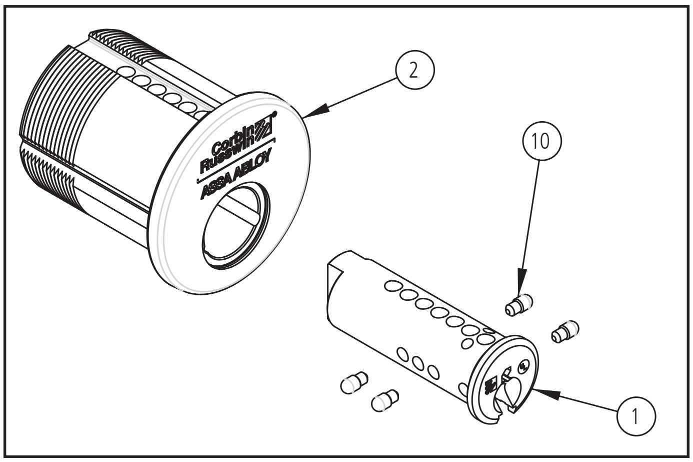
ITEM	DESCRIPTION	QTY.	PART NUMBER	REMARKS
1	Plug (1020-114)	1	696K432	Finish & Keyway Required
1	Plug (1027-114)	1	716K432	Finish & Keyway Required
2	Shell (1-1/4")	1	695F042	Finish required
3	Cam	1	480F058	A01 standard, refer to Key Systems Catalog (45078) for options.
4	Cam screws	2	438F418	
5	Blocking plate	1	696F427	
6	Spring cover	1	217F432	
7	Springs	7	697F507	
8	Top & bottom pins	*	*	Refer to page 14 for options
9	Hard metal inserts	4		Not sold separately

CYLINDER WITH SIDE PINS

ITEM	DESCRIPTION	QTY.	PART NUMBER	REMARKS
1	Plug (1020-114)	1	628K852	Finish & Keyway Required
1	Plug (1027-114)	1	628K992	Finish & Keyway Required
2	Shell (1-1/4")	1	629F062	Finish required
10	Side pins	4	630F494	The side pins are available in a vial that contains 20 side pins. Only 4 side pins are required for the cylinder.



Cylinder with Side Pins

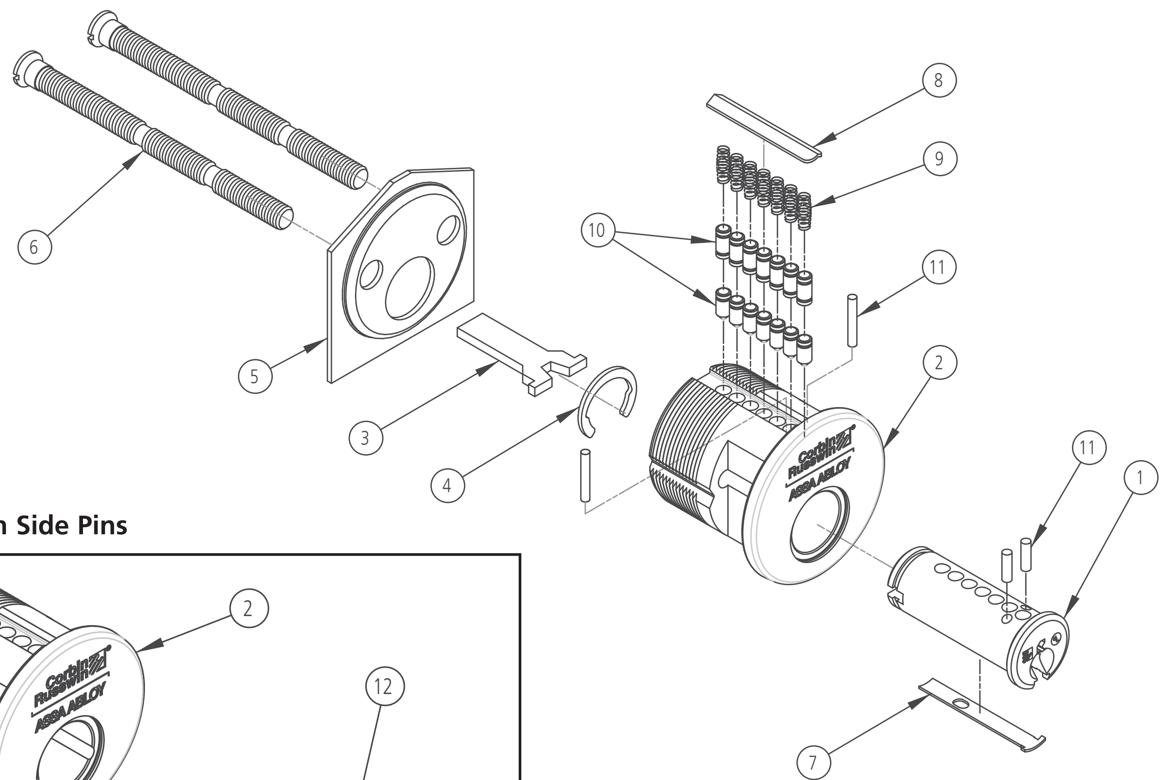


STANDARD CYLINDER

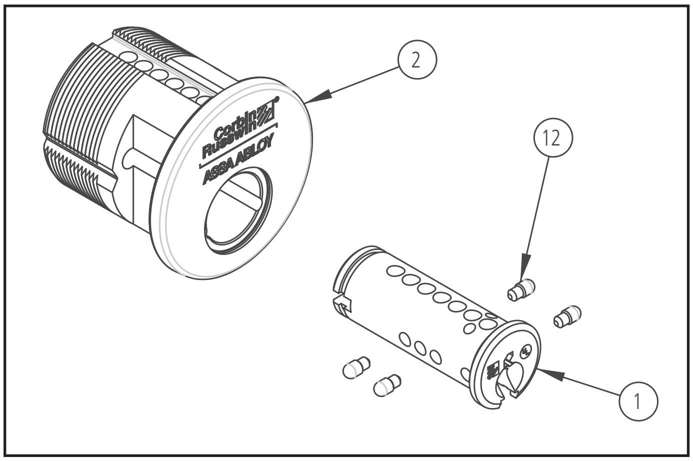
ITEM	DESCRIPTION	QTY.	PART NUMBER	REMARKS
1	Plug (1020-112)	1	798K912	Finish & Keyway Required
1	Plug (1027-112)	1	798K922	Finish & Keyway Required
2	Shell (1-1/2")	1	798F982	Finish required
3	Cam	1	480F058	A01 standard, refer to Key Systems Catalog (45078) for options.
4	Cam screws	2	438F418	
5	Blocking plate	1	696F427	
6	Spring cover	1	217F432	
7	Springs	7	697F507	
8	Top & bottom pins	*	*	Refer to page 14 for options
9	Hard metal inserts	4		Not sold separately

CYLINDER WITH SIDE PINS

ITEM	DESCRIPTION	QTY.	PART NUMBER	REMARKS
1	Plug (1020-112)	1	628K972	Finish & Keyway Required
1	Plug (1027-112)	1	630K472	Finish & Keyway Required
2	Shell (1-1/2")	1	630F482	Finish required
10	Side pins	4	630F494	The side pins are available in a vial that contains 20 side pins. Only 4 side pins are required for the cylinder.



Cylinder with Side Pins

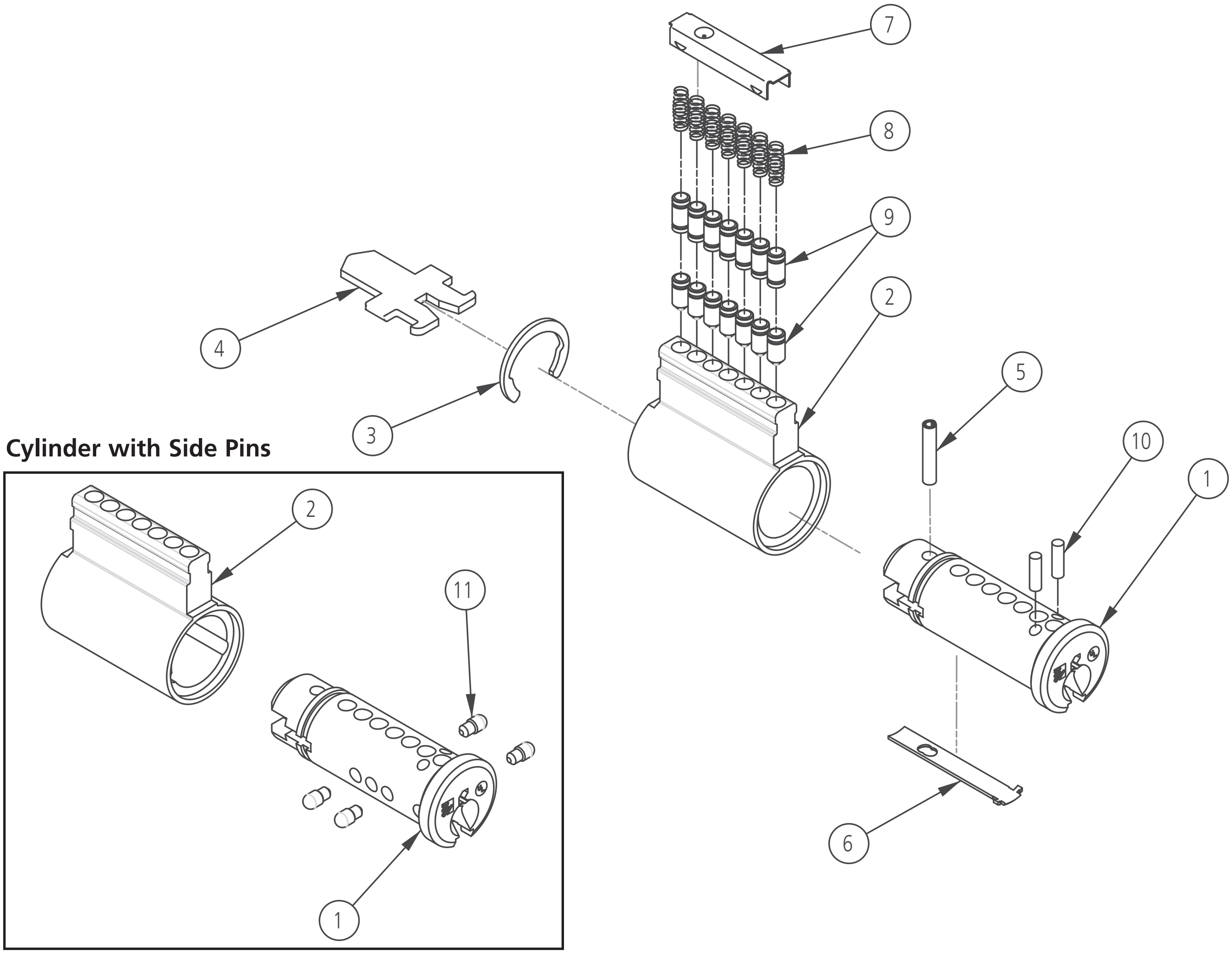


STANDARD CYLINDER

ITEM	DESCRIPTION	QTY.	PART NUMBER	REMARKS
1	Plug (3020)	1	696K452	Finish & Keyway Required
1	Plug (3027)	1	716K452	Finish & Keyway Required
2	Shell - standard	1	695F042	Finish Required
2	Shell - slotted	1	695F052	Finish Required
3	Tailpiece	1	253F768	1-7/8 standard, refer to Key Systems Catalog (45078) for options.
4	Plug retainer	1	333F997	
5	Back plate	1	253F758	
6	Mounting screws	2	021F688	1-7/8 standard, refer to Key Systems Catalog (45078) for options.
7	Blocking plate	1	696F427	
8	Slide	1	217F432	
9	Springs	7	697F507	
10	Top & bottom pins	*	*	Refer to page 14 for options
11	Hard metal inserts	4		Not sold separately

CYLINDER WITH SIDE PINS

ITEM	DESCRIPTION	QTY.	PART NUMBER	REMARKS
1	Plug (3020)	1	628K872	Finish & Keyway Required
1	Plug (3027)	1	629K002	Finish & Keyway Required
2	Shell - standard	1	629F062	Finish Required
2	Shell - slotted	1	629F072	Finish Required
12	Side pins	4	628F844	The side pins are available in a vial that contains 20 side pins. Only 4 side pins a required for the cylinder.



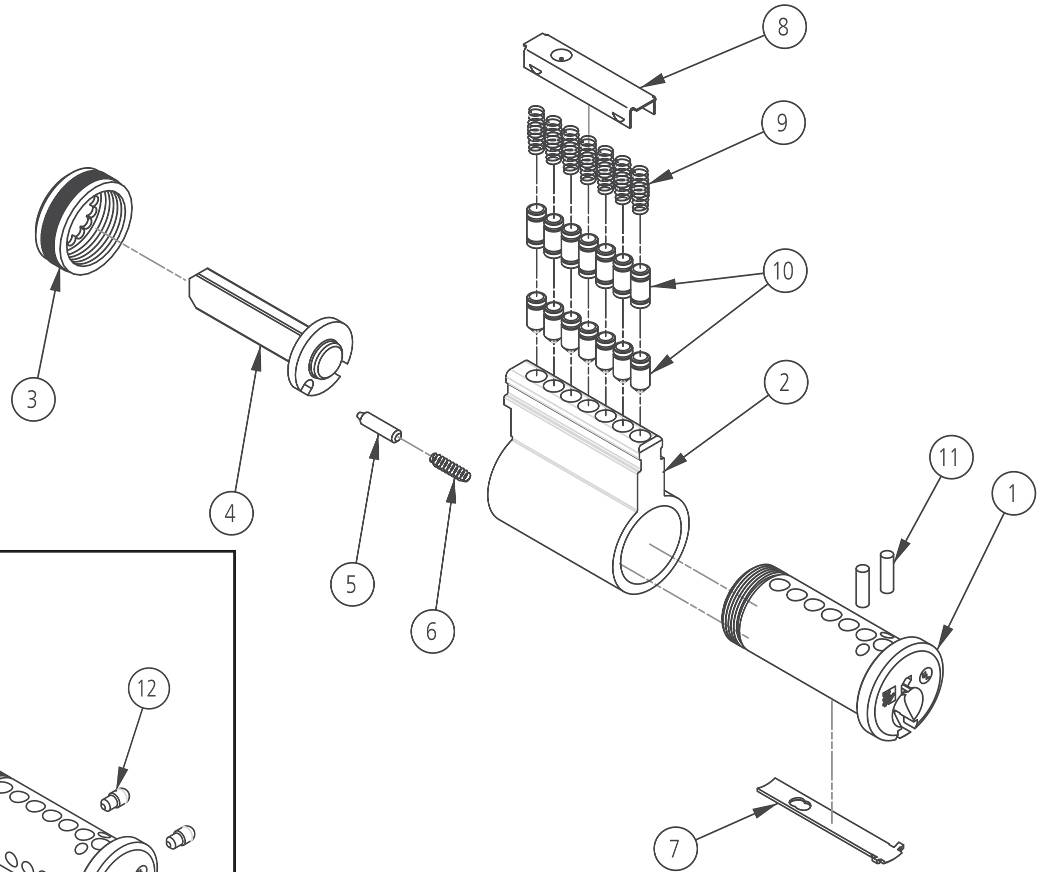
Cylinder with Side Pins

STANDARD CYLINDER

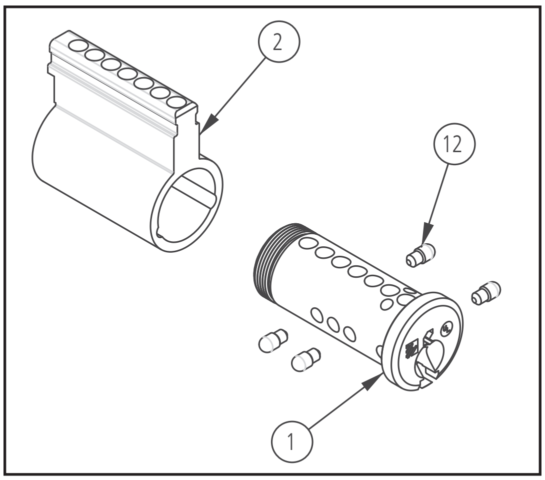
ITEM	DESCRIPTION	QTY.	PART NUMBER	REMARKS
1	Plug (2020)	1	696K482	Finish & Keyway Required
1	Plug (2027)	1	716K482	Finish & Keyway Required
2	Shell	1	696F492	
3	Plug retainer	1	333F997	
4	Tailpiece	1	489F028	-051 cylinder only
5	Roll pin	1	232F037	
6	Blocking plate	1	696F427	
7	Spring cover	1	585F397	
8	Spring	7	697F507	
9	Top & bottom pins	*	*	Refer to page 14 for options
10	Hard metal inserts	2		Not sold separately

CYLINDER WITH SIDE PINS

ITEM	DESCRIPTION	QTY.	PART NUMBER	REMARKS
1	Plug (2020)	1	628K902	Finish & Keyway Required
1	Plug (2027)	1	629K022	Finish & Keyway Required
2	Shell	1	628F912	
11	Side pins	4	630F494	The side pins are available in a vial that contains 20 side pins. Only 4 side pins are required for the cylinder.



Cylinder with Side Pins

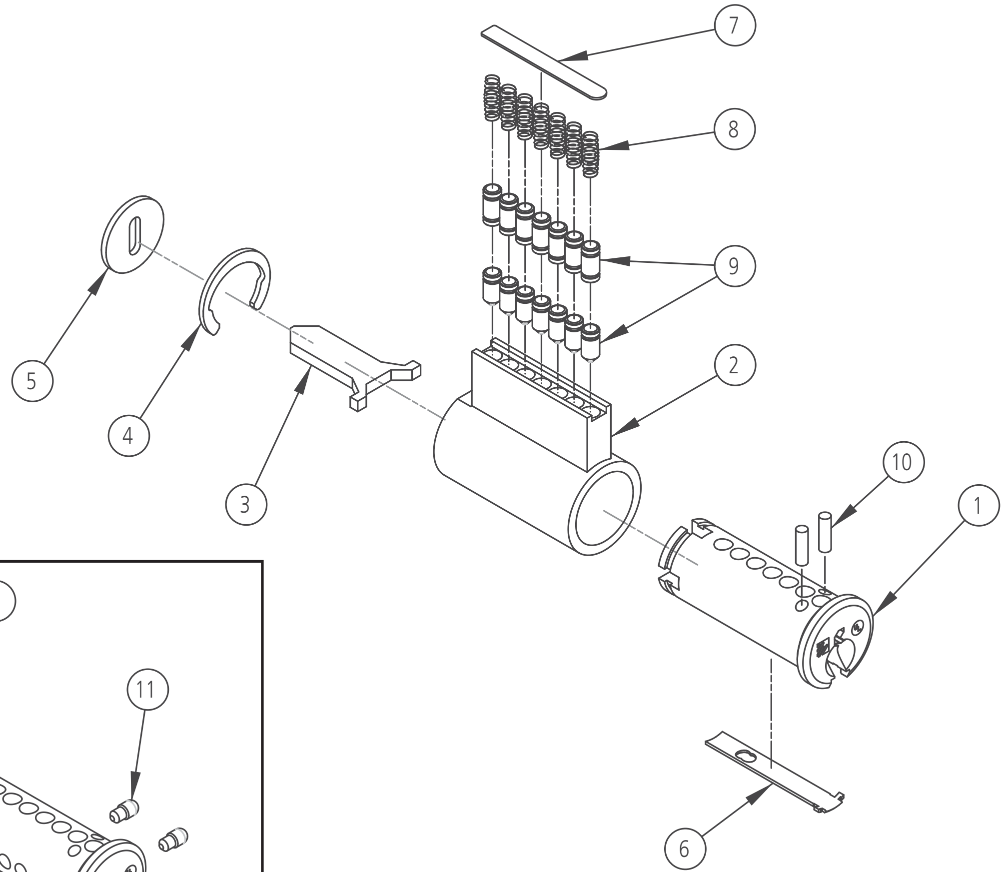


STANDARD CYLINDER

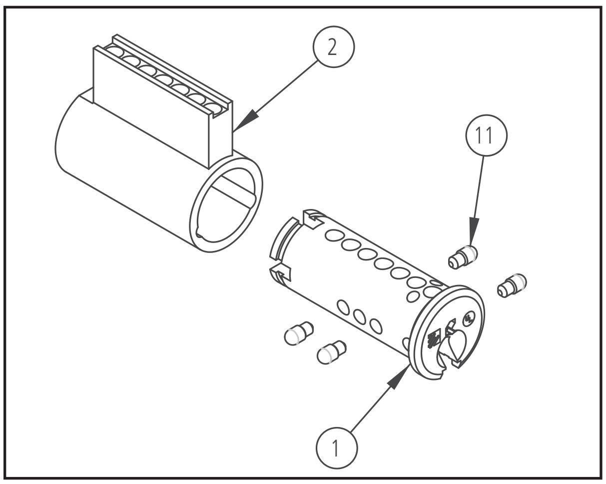
ITEM	DESCRIPTION	QTY.	PART NUMBER	REMARKS
1	Plug (2020)	1	696K462	Finish & Keyway Required
1	Plug (2027)	1	716K462	Finish & Keyway Required
2	Shell	1	696F472	
3	Cap, cylinder	1	680F645	
4	Tailpiece	1	622F308	-033 Cylinder, refer to Key Systems Catalog (45078) for options.
5	Pin, cap	1	585F312	
6	Spring, cap pin	1	585F327	
7	Blocking plate	1	696F427	
8	Spring cover	1	585F397	
9	Spring	7	697F507	
10	Top & bottom pins	*	*	Refer to page 14 for options
11	Hard metal inserts	2		Not sold separately

CYLINDER WITH SIDE PINS

ITEM	DESCRIPTION	QTY.	PART NUMBER	REMARKS
1	Plug (2020)	1	628K882	Finish & Keyway Required
1	Plug (2027)	1	629K012	Finish & Keyway Required
2	Shell	1	628F892	
12	Side pins	4	630F494	The side pins are available in a vial that contains 20 side pins. Only 4 side pins are required for the cylinder.



Cylinder with Side Pins

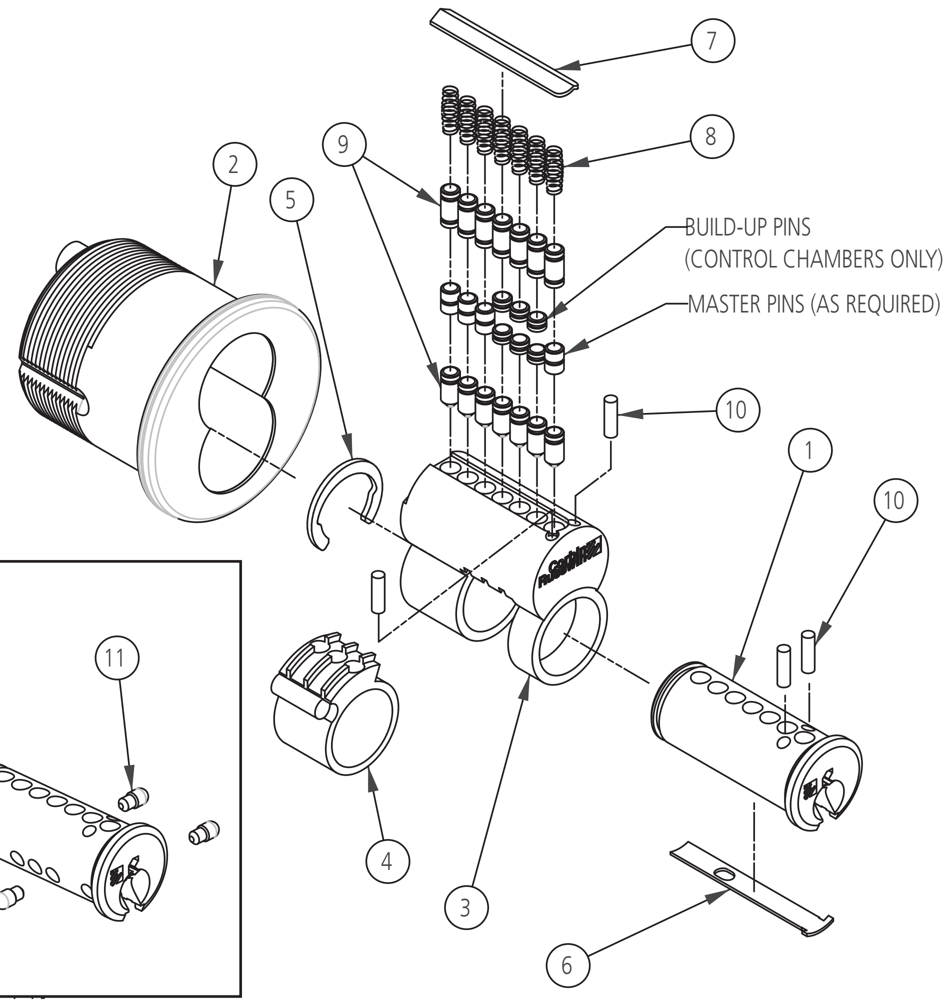


STANDARD CYLINDER

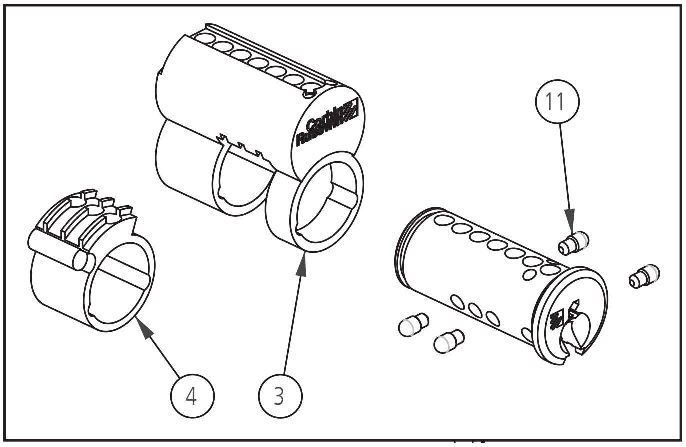
ITEM	DESCRIPTION	QTY.	PART NUMBER	REMARKS
1	Plug (2220)	1	715K142	Finish & Keyway Required
1	Plug (2227)	1	715K162	Finish & Keyway Required
2	Shell	1	715F152	
3	Tailpiece	1	715F108	-P21 Cylinder, refer to Key Systems Catalog (45078) for options.
4	Plug retainer	1	333F997	
5	Spacer	1	715F139	KIK cylinder only
6	Blocking plate	1	696F427	
7	Slide	1	411F092	
8	Springs	7	697F507	
9	Top & bottom pins	*	*	Refer to page 14 for options
10	Hard metal inserts	2		Not sold separately

CYLINDER WITH SIDE PINS

ITEM	DESCRIPTION	QTY.	PART NUMBER	REMARKS
1	Plug (2220)	1	628K952	Finish & Keyway Required
1	Plug (2227)	1	629K042	Finish & Keyway Required
2	Shell	1	628F962	
11	Side pins	4	630F494	The side pins are available in a vial that contains 20 side pins. Only 4 side pins are required for the cylinder.



Cylinder with Side Pins



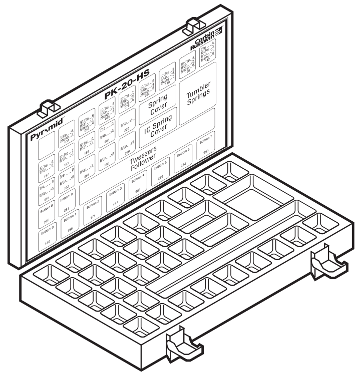
STANDARD CYLINDER

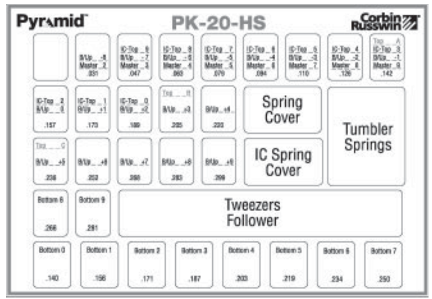
ITEM	DESCRIPTION	QTY.	PART NO.	REMARKS
1	Plug (8020 & 8027)	1	696K522	Finish & Keyway Required
2	Housing	1	*	Mortise housing 1070 shown
3	IC Core	1	695F502	Finish Required
4	Control sleeve	1	696F51	
5	Plug retainer	1	333F997	
6	Blocking plate	1	696F427	
7	Slide	1	217F442	
8	Springs	7	697F507	
9	Top & bottom pins	*	*	Refer to page 14 for options
10	Hard metal inserts	4		Not sold separately

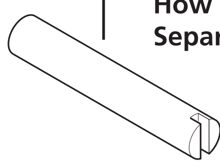
CYLINDER WITH SIDE PINS

ITEM	DESCRIPTION	QTY.	PART NO.	REMARKS
1	Plug (8020 & 8027)	1	629K032	Finish & Keyway Required
3	IC Core	1	628F922	Finish Required
4	Control sleeve	1	628F932	Finish Required
11	Side pins	4	630F494	The side pins are available in a vial that contains 20 side pins. Only 4 side pins a required for the cylinder.

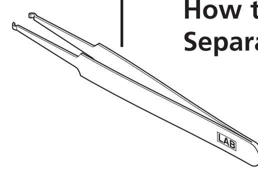
Pin Kit - Includes Follower and Tweezers
How to Order:
` Pyramid High Security: PK-20-HS
Pyramid Security: PK-20-PS





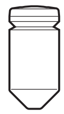


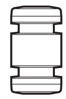
Follower
How to Order Separately: CT20



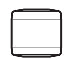
Tweezers
How to Order Separately: CT19

Pin Kit Contents





OR



LENGTH	BOTTOM	MASTER	BUILD-UP	TOP	IC - TOP	PK-20-HS and PK-20-PS QTY	PK-20-HS PART NO.	PK-20-PS PART NO.
.031″		2	-8			100	695F257031	695F252031
.047″		3	-7		9	100	695F257047	695F252047
.063″		4	-6		8	100	695F257063	695F252063
.078″		5	-5		7	100	695F257078	695F252078
.094″		6	-4		6	100	695F257094	695F252094
.110″		7	-3		5	100	695F257110	695F252110
.126″		8	-2		4	100	695F257126	695F252126
.139″	0					100	695F247139	695F244139
.141″		9	-1	A	3	100	695F257141	695F252141
.155″	1					100	695F247155	695F244155
.157″			0		2	100	695F257157	695F252157
.171″	2					100	695F247171	695F244171
.173″			+1		1	100	695F257173	695F252173
.187″	3					100	695F247187	695F244187
.189″			+2		0	100	695F257189	695F252189
.202″	4					100	695F247202	695F244202
.204″			+3	B		100	695F257204	695F252204
.218″	5					100	695F247218	695F244218
.220″			+4			100	695F257220	695F252220
.234″	6					100	695F247234	695F244234
.236″			+5	C		100	695F257236	695F252236
.250″	7					100	695F247250	695F244250
.252″			+6			100	695F257252	695F252252
.265″	8					100	695F247265	695F244265
.267″			+7			100	695F257267	695F252267
.281″	9					100	695F247281	695F244281
.283″			+8			100	695F257283	695F252283
.299″			+9			100	695F257299	695F252299

PINS (SPECIFY SIZE)		
QTY.	PART NO.	DESCRIPTION
Vial of 100	695F25(Length)	Top Pins
Vial of 100	695F24(Length)	Bottom Pins
Vial of 100	628F107-142	Top Pins A - BRP
Vial of 100	628F107-236	Top Pins C - BRP
Vial of 20	630F494	Side-Pin

CYLINDER PARTS		
DESCRIPTION	PART NO.	PK-20HS Qty.
Tumbler Springs	697F50	100
Spring Cover	217F43	100
IC Spring Cover	217F44	20
Follower .496	CT20	1
Tweezers	CT19	1
Blocking Plate	696F42	20

Notes

Corbin Russwin®

ASSA ABLOY

In U.S.
Corbin Russwin
Architectural Hardware
225 Episcopal Road
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